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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(Use as many sheets as necessary)

Complete if Known	
Application No.	10/646,277
Filing Date	08/22/2003
First Named Inventor	Craig A. Brice
Group Art Unit	~~Unknown~~ 1745
Examiner Name	~~Unknown~~ I. Cain
Attorney Docket No.	TA-00578

Sheet	1	of	2

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
I. Hd	AA	4,661,172		Skinner, et al.	04/28/87	
	AB	4,923,532		Zedalis, et al.	05/08/90	
	AC	5,030,517		Gilman, et al.	07/09/91	
✓	AD	5,882,449		Waldron, et al.	03/16/99	

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Examiner Initials	Cite No.	Foreign Patent Document Office Number Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T

OTHER PRIOR ART

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.
I. Hd	BA	*"Direct Laser Dposition of Alloys from Elemental Powder Blends"*, Scripta Materialia (2001)
	BB	*"Characterization of Laser-Deposited TiA1 Alloys"*, Scripta Materialia (2001)
✓	BC	*"Laser-Deposited Advanced Materials"*, Journal of Advanced Materials (2001)

	BD	*"In Situ Deposition of Ti-TiB Composites Using Lens"*, Metal Powder Deposition for Rapid Manufacturing, Proceedings of the International Conference on Metal Powder Deposition for Rapid Manufacturing, San Antonio, TX, April 8-10, 2002
	BE	*"Characterization of Laser-Deposited TiAl Alloys"*, Materials Research Society Symposium Proceedings (1999)
	BF	*"Précis de Construction Mécanique. Tome 1: Dessin, Conception et Normalisation"*, 1978 Construction Mecanique

7/5/05

8/03

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Application No.	~~Unknown~~ 10/646,277
Filing Date	Herewith
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Group Art Unit	~~Unknown~~ 1725
Examiner Name	~~Unknown~~ I. Lin
Attorney Docket No.	TA-00578

Sheet 1 of 2

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Examiner Initials	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
C.Lee	AA	5,597,529		Tack	01/28/97	
↓	AB	5,624,632		Baumann, et al.	04/29/97	

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Examiner Initials	Cite No.	Foreign Patent Document Office Number Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T

OTHER PRIOR ART

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.
C.Lee	BA	*Custom Aluminum Alloy for Direct Deposition Techniques* by Craig A. Brice, March 7, 2001, Lockheed Martin Proprietary Information
↓	BB	*Weldability of Li-Bearing Aluminium Alloys* by A. Kostrivas and J.C. Lippold, International Materials Reviews 1999 Vol. 44, No. 6
↓	BC	*Weldable Aluminium Alloys With Scandium (Review)* by A.Ya. Ishchenko and T.M. Labur, The Paton Welding Journal 1998 10 (8) 389-392

T.K	BD	*Examining the Efficiency of Hardening the Weld Metal With Scandium in Welding 1420 Aluminium-Lithium Alloy* by T.M. Labur, The Paton Welding Journal 1996 8 (7) 391-393
	BE	*Prospects for Using Welding in Construction of New Generation Aircraft* by B.E. Paton, A.Ya. Ishchenko and K.A. Yushchenko, A.G. Bratukhin, A.G. Vovnyanko, E.T. Vasilevskii and A.G. Molyar, The Paton Welding Journal 1996 8 (6) 343-344
	BF	*Welding Technology and Properties of Welded Joints in Aluminium-Lithium Alloys (Review)* by A. Ya. Ishchenko and T.M. Labur, The Paton Welding Journal 1998 10 (7) 360-364
	BG	*Scandium in Aluminum Alloys* by Lawrence S. Kramer and William T. Tack, Micky T. Fernandes, Advanced Materials & Processes 10/97
	BH	*Mechanical Properties and Microstructures of Al-Mg-Sc Alloys* by Ralph R. Sawtell and Craig l. Jensen, Metallurgical Transactions A, Volume 21A, February 1990 - 421
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Examiner Signature	T.K	Date Considered	7/5/05